

Figure 1: Categories of Defects in Sewer Pipes



Figure 2: Root Intrusion

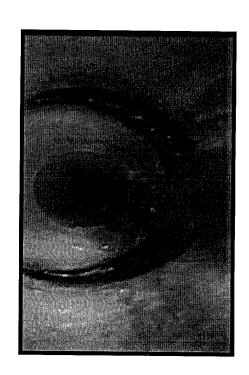


Figure 4: Infiltration

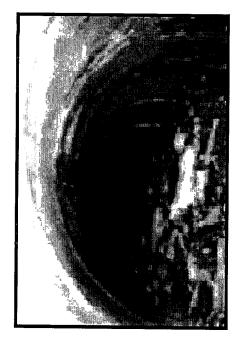


Figure 3: Dirt Deposits

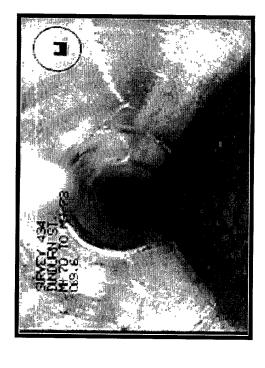


Figure 5: Cracks

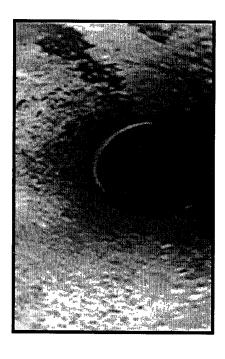


Figure 6: Misalignments

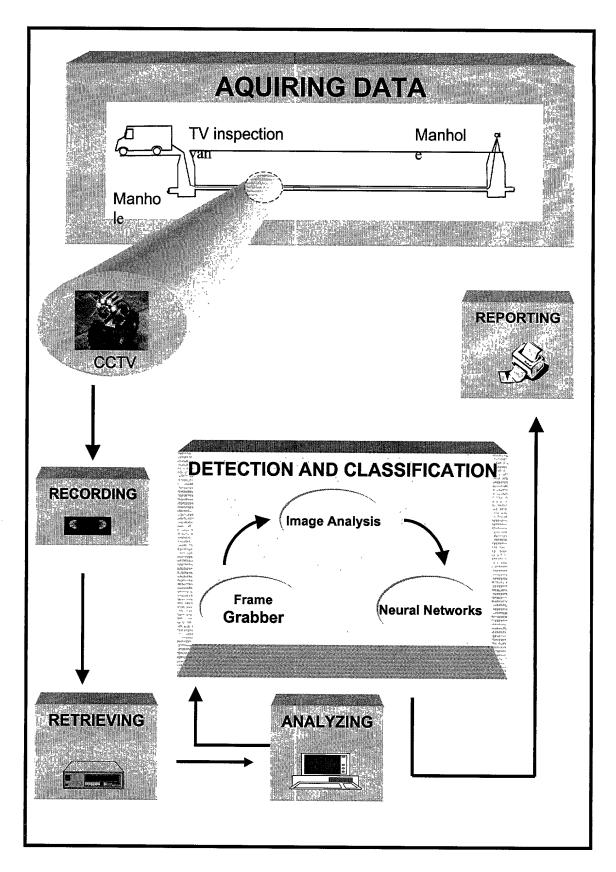


Figure 7: Proposed Automated Detection and Classification System

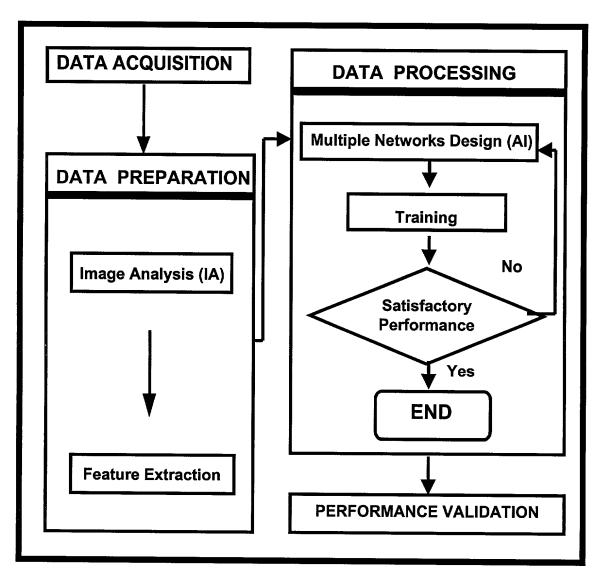


Figure 8: Methodology for Developing Automated Detection System

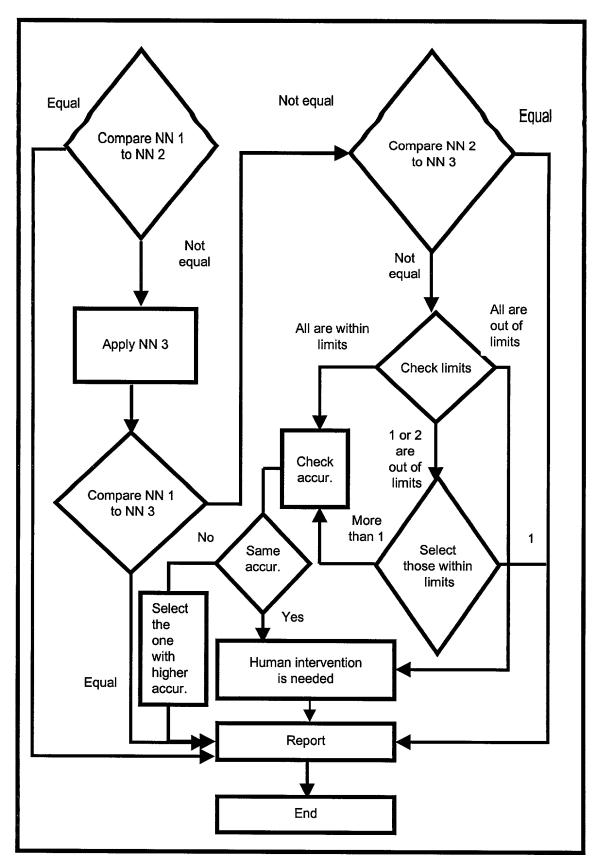


Figure 9: Algorithm of the Multiple Classifier System

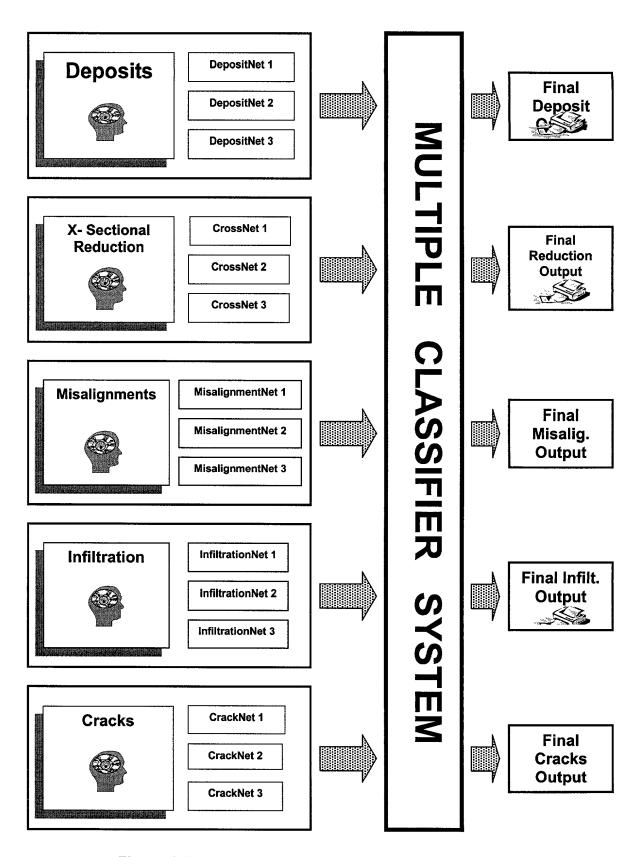


Figure 3-10: Utilization of the Multiple Classifier System

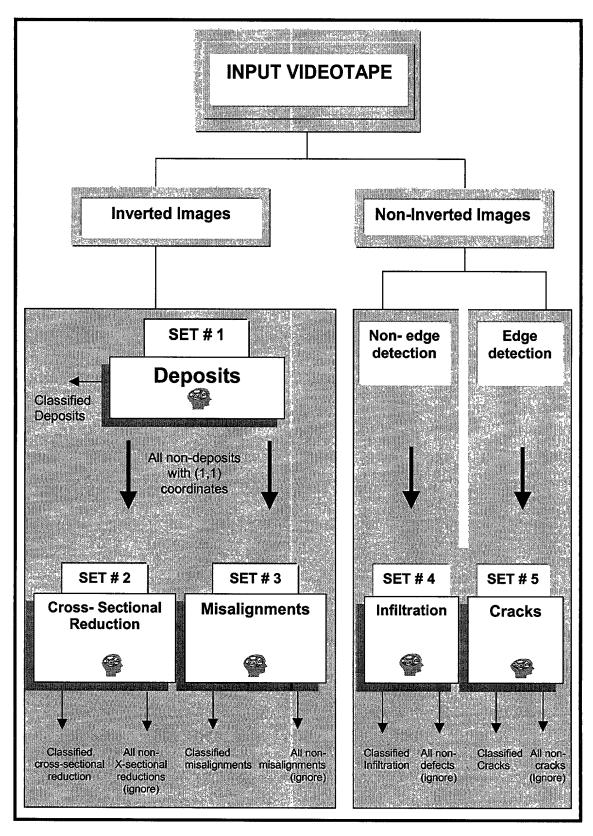


Figure 3-11: Solution Strategy

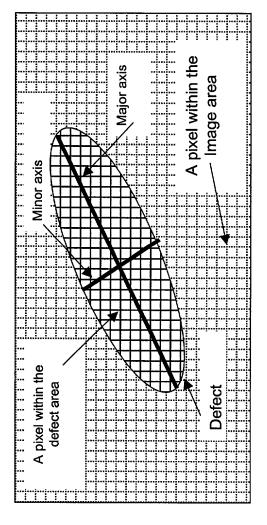


Figure 12: Geometrical Attributes of Defects

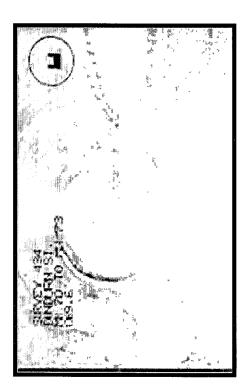


Figure 13: Background Subtracted Image of Cracks



Figure 15: Dilated Image of Cracks

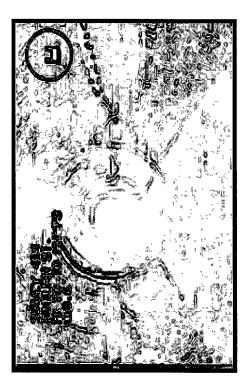


Figure 14: Edge Detected Image of Cracks



Figure 16: Thresholded Image of Cracks



Figure 17: Segmented Image of Cracks

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Figure 18: Analysis Results of an Image Depicting Cracks

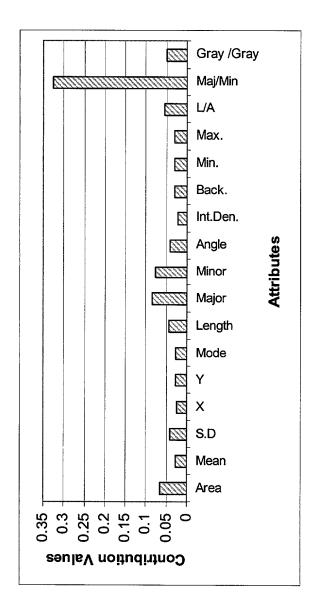


Figure 19: Contribution Values of Attributes Utilized in Designing the Preliminary Neural Network for Classification of Cracks

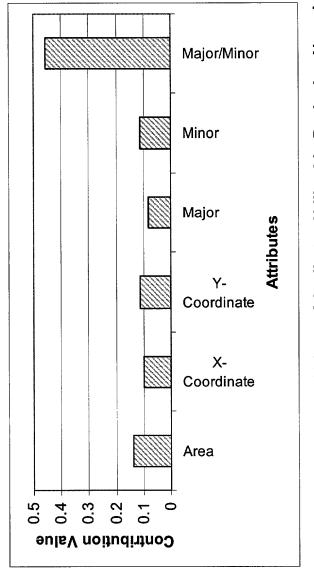


Figure 20: Contribution Values of Attributes Utilized in Designing Neural Network # 1 for Classification of Cracks

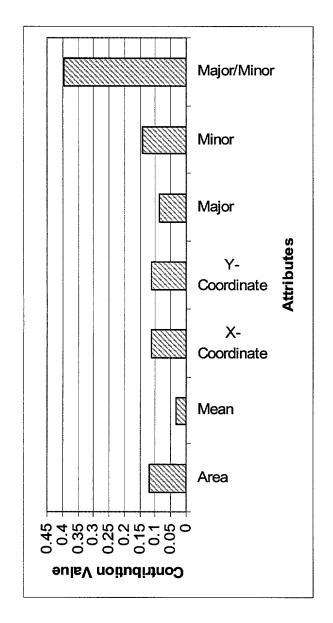


Figure 21: Contribution Values for the Selected Attributes Utilized in Designing CrackNet 2

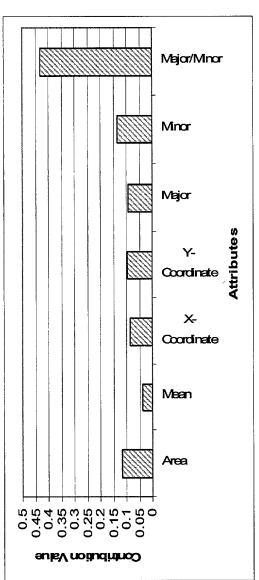


Figure 22: Contribution Values for the Selected Attributes Utilized in Designing CrackNet 3

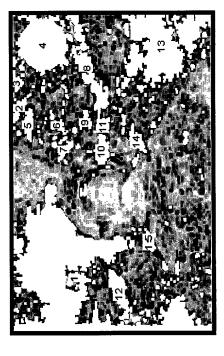


Figure 23: Segmented Image of a Case Example on Cracks

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Figure 24: Output Results of a Case example on Cracks

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Figure 25: Thresholded Output Results of a Case example on Cracks

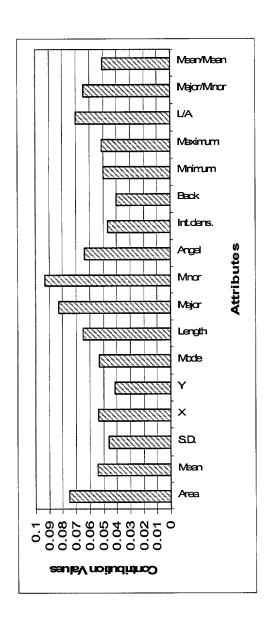


Figure 26: Contribution Values of Attributes Utilized in Designing InfiltrationNet 1



Figure 27: Dilated Image of Infiltration



Figure 29: Thresholded Image of Infiltration

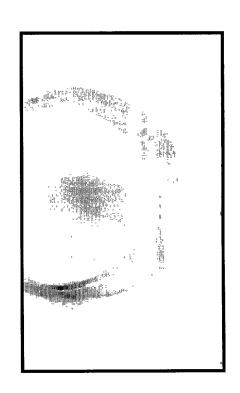


Figure 28: Background subtracted Image of Infiltration

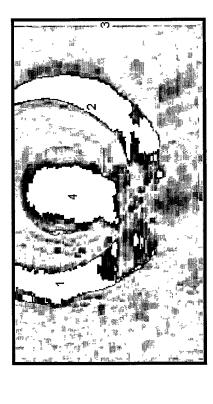


Figure 30: Segmented Image of Infiltration

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Figure 31: Analysis Results of an Image Depicting Infiltration

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Figure 32: Classification Results of a Case Example on Infiltration

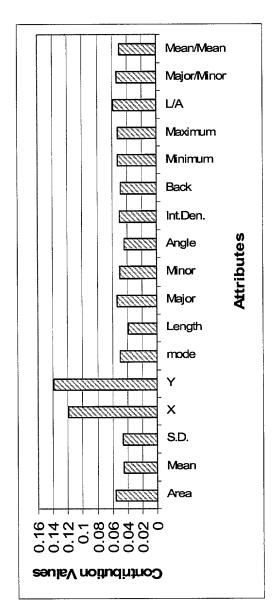


Figure 33: Contribution Values of Attributes Utilized in Designing DepositNet 1

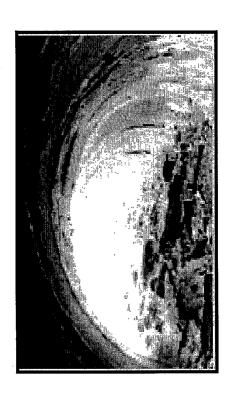


Figure 34: Inverted Image of Deposits

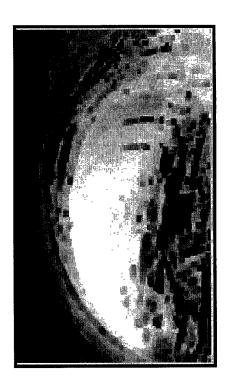


Figure 36: Dilated Image of Deposits

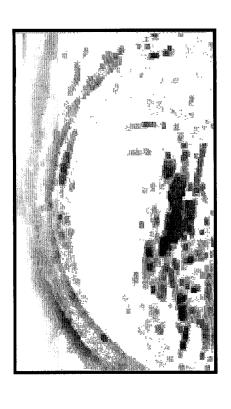


Figure 35: Background Subtracted Image of Deposits



Figure 37: Thresholded Image of Deposits

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Figure 38: Segmented Image of Deposits

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Figure 39: Analysis Results of an Image Depicting Deposits

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Figure 40: Classification Results of a Case Example on Deposits

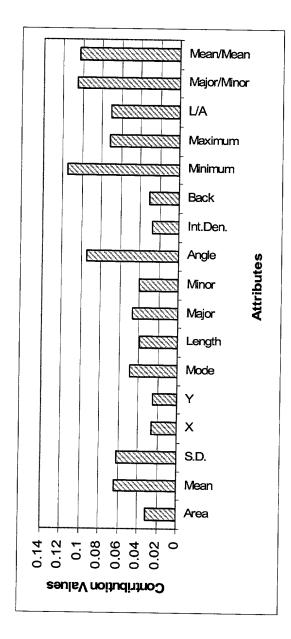


Figure 41: Contribution Values for all Attributes Utilized in Designing a Preliminary Neural Network for Classification of Cross-sectional Reductions



Figure 42: Inverted Image of cross-sectional Reductions



Figure 44: Background subtracted Image of Cross-sectional Reductions



Figure 43: Dilated Image of cross-sectional Reductions



Figure 45: Thresholded Image of Cross-Sectional Reductions



Figure 46: Segmented Image of Cross-sectional Reductions

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Figure 47: Analysis Results of an Image Depicting Cross-sectional Reductions

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Figure 48: Classification Results of a Case Example on Cross-sectional Reductions

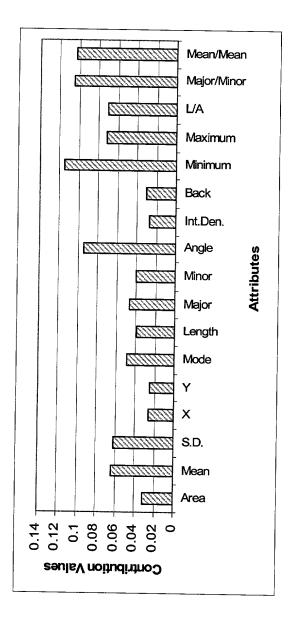


Table 49: Initial Parameters Used in Designing a Preliminary Neural Network for Classification of Misalignments



Figure 50: Inverted Image of Misalignments



Figure 52: Background Substracted Image of Misalignments

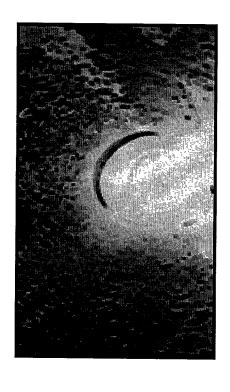


Figure 51: Dilated Image of Misalignments

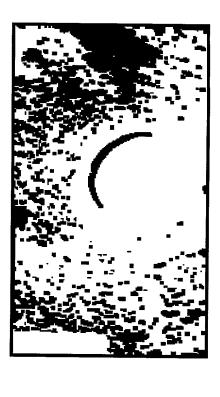


Figure 53: Thresholded Image of Misalignments

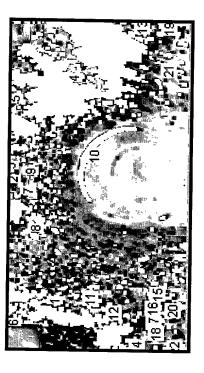


Figure 54: Segmented Image of Misalignments

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77.00 45.30 10.39 166.31 75.02 51.46 524.00 61.37 24.96 181.44 75.00 212.65 77.00 44.99 6.90 47.45 75.00 212.65 81.00 43.12 3.41 34.14 72.77 49.46 81.00 61.27 22.01 303.91 113.18 44.73 81.00 44.38 3.60 2.20 112.34 115.15 82.00 44.38 14.79 39.26 125.34 115.15 82.00 44.66 5.31 15.62 52.87 97.00 44.66 5.31 15.62 57.46 187.00 60.12 19.48 37.32 142.69 65.94 59.00 60.66 30.58 262.57 136.07 55.31 89.00 46.31 7.62 2.34 144.67 55.31	77.00 45.30 10.39 166.31 70.26 51.46 524.00 61.37 24.96 181.44 75.00 212.65 77.00 44.39 6.90 47.45 72.77 49.46 81.00 43.12 3.41 34.14 72.77 49.46 81.00 61.27 22.01 303.91 113.18 44.73 61.00 44.38 3.60 2.20 112.74 31.90 186.00 55.33 14.79 39.26 122.34 115.15 80.00 44.66 5.31 15.78 39.80 187.00 44.66 5.31 156.00 52.87 17.00 60.12 19.48 37.32 142.69 65.94 59.00 60.66 30.58 262.57 136.77 55.31 89.00 46.31 7.62 2.34 144.67 55.31		315.00	49.34	12.66	113.77	25.	18	172.99	22.07
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Figure 55: Analysis Results of an Image Depicting Misalignments

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Figure 56: Classification Results of a Case example on Misalignments



Figure 57: Segmented Image of Deposits

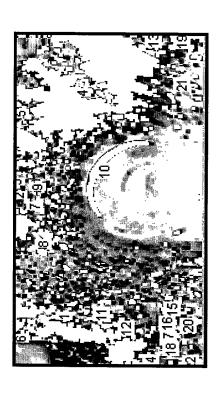


Figure 58: Segmented image of Misalignments



Figure 59: Segmented Image of Cross-sectional Reductions

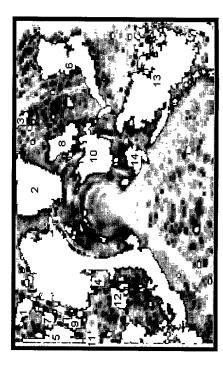


Figure 60: Segmented Image of Cracks



Figure 61: Segmented Image of Infiltration

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Figure 62: Output Results of a Case Example on Deposits Utilizing DepositNet 1 and the Solution Strategy Module

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Figure 62: Output Results of a Case Example on Deposits Utilizing DepositNet 1 and the Solution Strategy Module (Continued)

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Figure 63: Output Results of a Case Example on Deposits Utilizing DepositNet 2 and the Solution Strategy Module

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Figure 63: Output Results of a Case Example on Deposits Utilizing DepositNet 2 and the Solution Strategy Module (Continued)

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Figure 64: Output Results of a Case Example on Deposits Utilizing DepositNet 3 and the Solution Strategy Module

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Figure 64: Output Results of a Case Example on Deposits Utilizing DepositNet 3 and the Solution Strategy Module (Continued)

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Figure 65: Comparison of Output Results of DepositNet 1-3 Utilizing the Multiple Classifier Module

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Figure 65: Comparison of Output Results of DepositNet 1-3 Utilizing the Multiple Classifier Module (Continued)

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Figure 66: Output Results of a Case Example on Cross-sectional Reductions Utilizing CrossNet 1 and the Solution Strategy

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Figure 67: Output Results of a Case Example on Cross-sectional Reductions Utilizing CrossNet 2 and the Solution Strategy

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Figure 68: Output Results of a Case Example on Cross-sectional Reductions Utilizing CrossNet 3 and the Solution Strategy Module

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Figure 69: Comparison of Output Results of CrossNet 1-3 Utilizing the Multiple Classifier Module

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Figure 70: Output Results of a Case Example on Misalignments Utilizing MisalignmentNet 1 and the Solution Strategy Module

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Figure 71: Output Results of a Case Example on Misalignments Utilizing MisalignmentNet 2 and the Solution Strategy Module

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Figure 72: Output Results of a Case Example on Misalignments Utilizing MisalignmentNet 3 and the Solution Strategy

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Figure 73: Comparison of Output Results of MisalignmentNet 1-3 Utilizing the Multiple Classifier Module

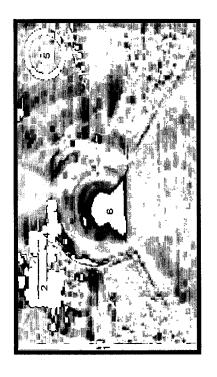


Figure 74: Segmented Image of Cracks



Figure 76:Segmented Image of Misalignments



Figure 75: Segmented Image of Cross-sectional Reductions

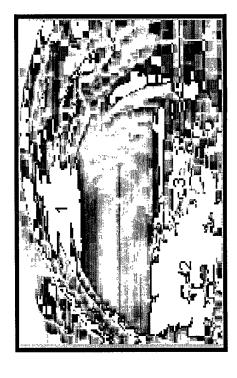


Figure 77: Segmented image of Deposits

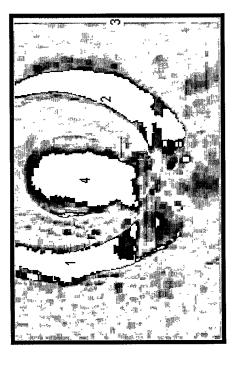


Figure 78: Segmented Image of Infiltration

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Figure 79: Output Results of a Case Example on Infiltration Utilizing InfiltrationNet 1 and the Solution Strategy Module

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Figure 79: Output Results of a Case Example on Infiltration Utilizing InfiltrationNet 1 and the Solution Strategy Module (Continued)

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Figure 80: Output Results of a Case Example on Infiltration Utilizing InfiltrationNet 2 and the Solution Strategy Module

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Figure 80: Output Results of a Case Example on Infiltration Utilizing InfiltrationNet 2 and the Solution Strategy Module (Continued)

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Figure 81: Output Results of a Case Example on Infiltration Utilizing InfiltrationNet 3 and the Solution Strategy Module

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Figure 81: Output Results of a Case Example on Infiltration Utilizing InfiltrationNet 3 and the Solution Strategy Module (Continued)

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Figure 82: Comparison of Output Results of InfiltrationNet 1-3 Utilizing the Multiple Classifier Module

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Figure 82: Comparison of Output Results of InfiltrationNet 1-3 Utilizing the Multiple Classifier Module (Continued)

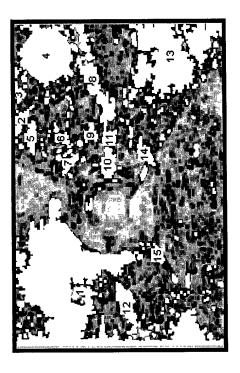


Figure 83: Segmented Image of Cracks

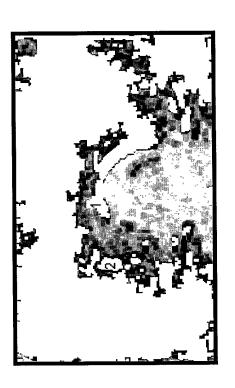


Figure 85: Segmented Image of Misalignments



Figure 84: Segmented Image of Cross-sectional Reductions



Figure 86: Segmented Image of Deposits

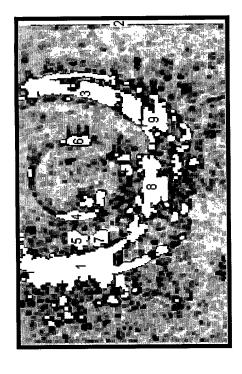


Figure 87: Segmented Image of Infiltration

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Figure 88: Output Results of a Case Example on Cracks Utilizing CrackNet 1 and the Solution Strategy Module

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Figure 88: Output Results of a Case Example on Cracks Utilizing CrackNet 1 and the Solution Strategy Module (Continued)

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Figure 89: Output Results of a Case Example on Cracks Utilizing CrackNet 2 and the Solution Strategy Module

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Figure 89: Output Results of a Case Example on Cracks Utilizing CrackNet 2 and the Solution Strategy Module (Continued)

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Figure 90: Output Results of a Case Example on Cracks Utilizing CrackNet 3 and the Solution Strategy Module

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Figure 90: Output Results of a Case Example on Cracks Utilizing CrackNet 3 and the Solution Strategy Module (Continued)

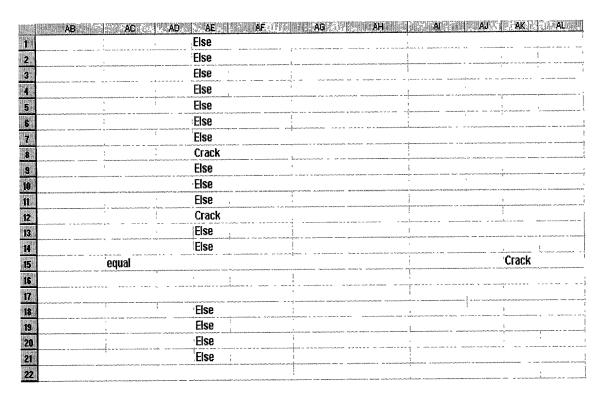


Figure 91: Comparison of Output Results of CrackNet 1-3 Utilizing the Multiple Classifier Module

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Figure 91: Comparison of Output Results of CrackNet 1-3 Utilizing the Multiple Classifier Module (Continued)

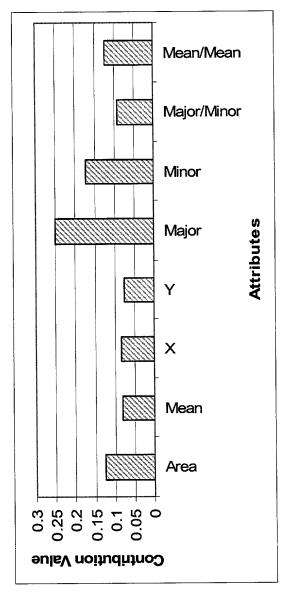


Figure 108: Contribution Values of Attributes Utilized in Designing InfiltrationNet 2

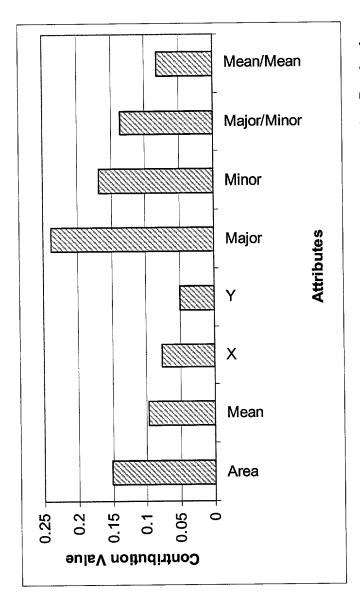


Figure 109: Contribution Values of Attributes Utilized in Designing InfiltrationNet 3

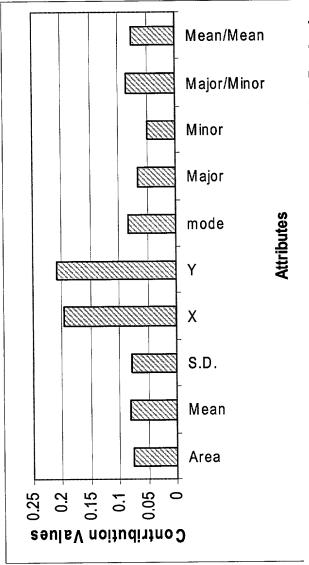


Figure 110: Contribution Values of Attributes Utilized in Designing DepositNet 2

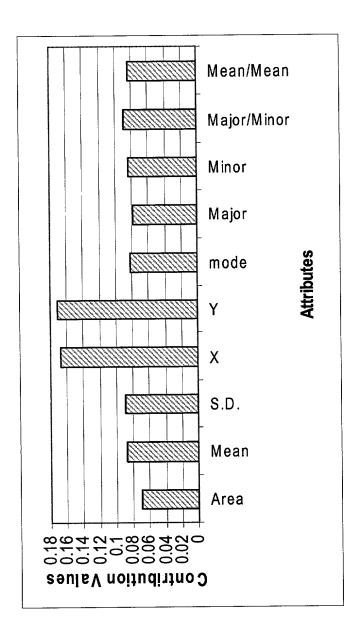


Figure 111: Contribution Values of Attributes Utilized in Designing DepositNet 3

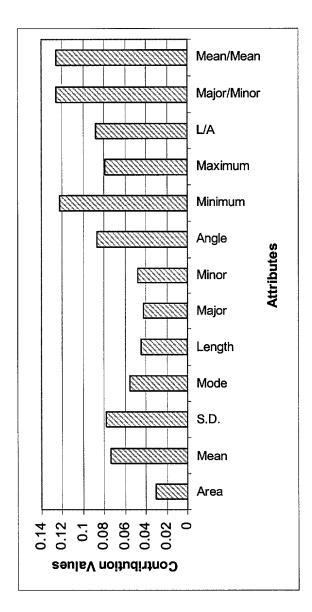


Figure 112: Contribution Values of Attributes Utilized in Designing CrossNet 1

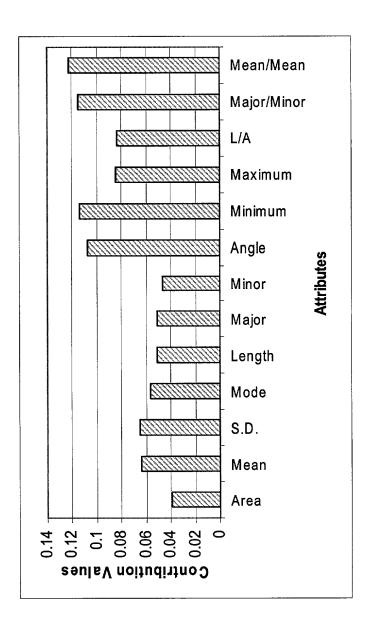


Figure 113: Contribution Values of Attributes Utilized in Designing CrossNet 2

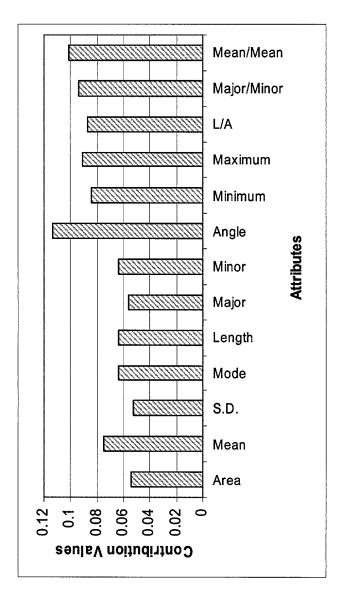


Figure 114: Contribution Values of Attributes Utilized in Designing CrossNet 2

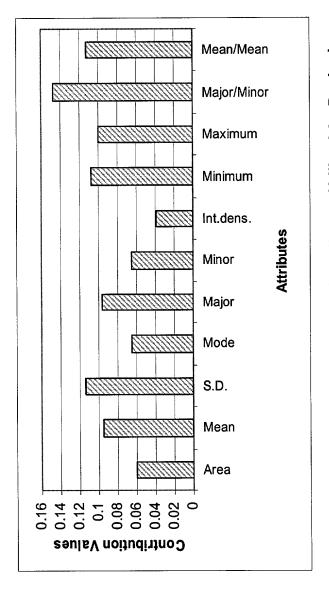


Figure 115: Contribution Values of Attributes Utilized in Designing AlignmentNet 1

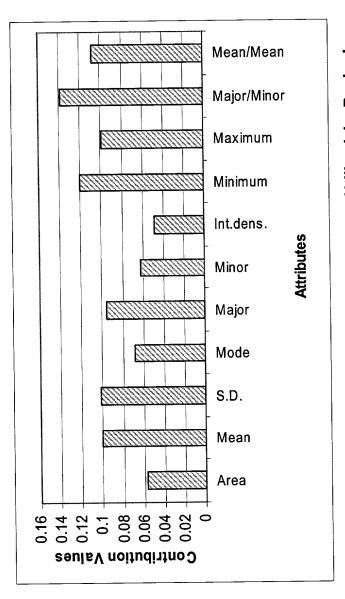


Figure 116: Contribution Values of Attributes Utilized in Designing AlignmentNet 2

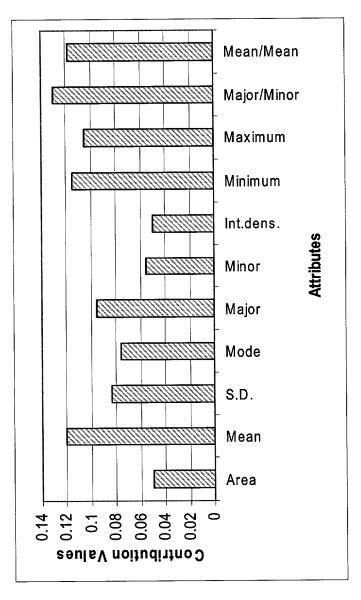


Figure 117: Contribution Values of Attributes Utilized in Designing AlignmentNet 3

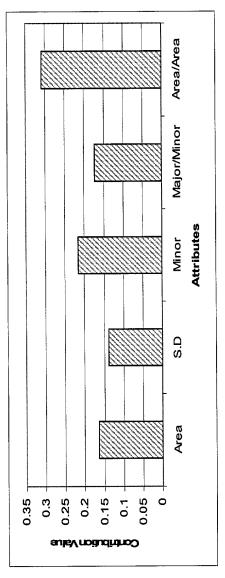


Figure 118: Contribution Values of Attributes Utilized in Designing ModCrossNet 1

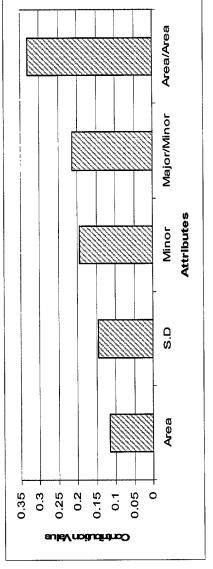


Figure 119: Contribution Values of Attributes Utilized in Designing ModCrossNet 2

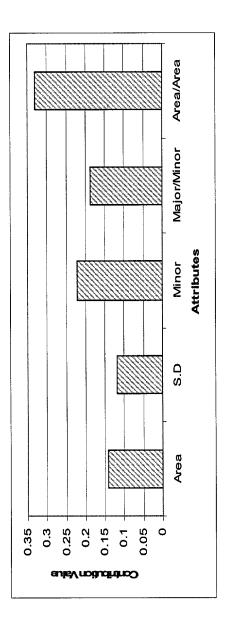


Figure 120: Contribution Values of Attributes Utilized in Designing ModCrossNet 3

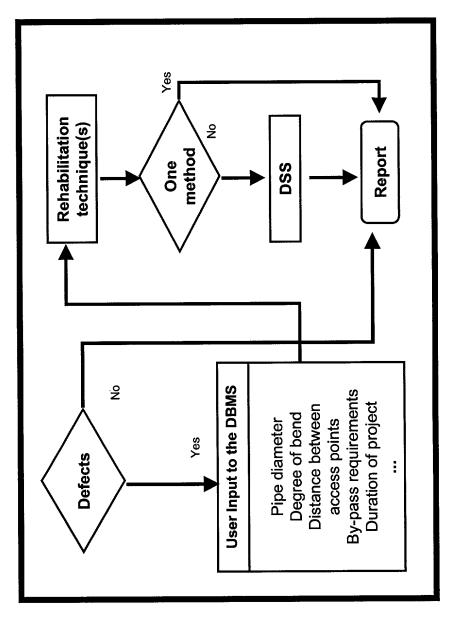


Figure 4-1: Developed Rehabilitation system

■ products: Table			V
Field Name	Data Type	Description	eve un
ProductID	AutoNumber	Database serial number	rss
Method of repair	Text	Commercial name of rehabilitation technique	Š
Maximum distance between access points	Number	Maximum allowable distance between access points to the host pipe	
Maximum degree of bends		Maximum degree of bends of the host pipe	(500)
Average cost		Cost of product	
Average duration		Duration to install 500 (m) of pipe in weeks	
Number of years in business	Number	regrs in business of supplier	
Life expectency		Design life of new pipe	ر الارائي
Local experience	Text	Does the supplier have an Office in Canada	
Access type	Text	Type of access required to the host pipe	38
Length of product installed	Number	Number of KM of product installed by the supplier	
Inovation	Number	Ability of supplier to accomodate none standard designs	9 5 8 8
Coordinates	Number	phone number	18-34,
	Field P	Field Properties	
General Lookup			
Field Gya			
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Figure 4-2: Products Table

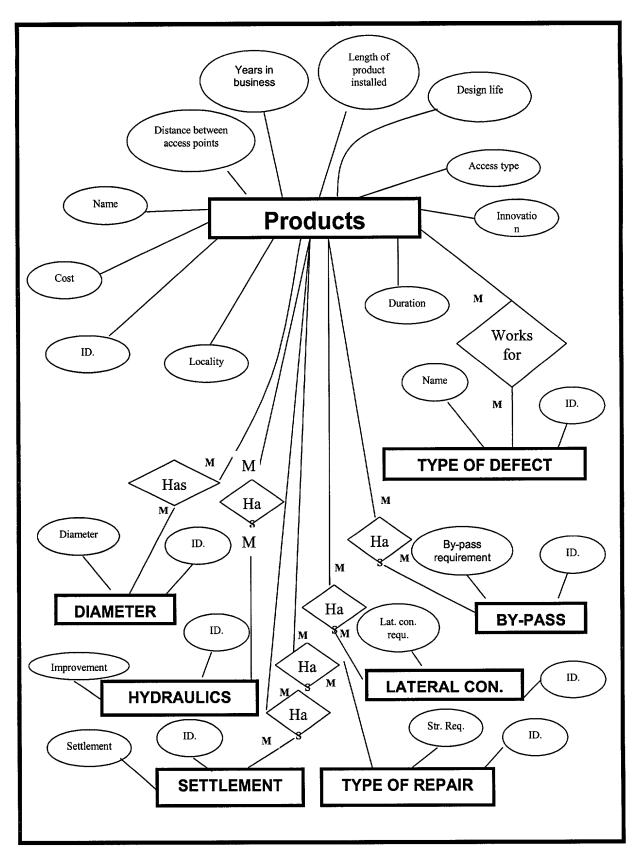


Figure 4-3: Entity Relationship Diagram

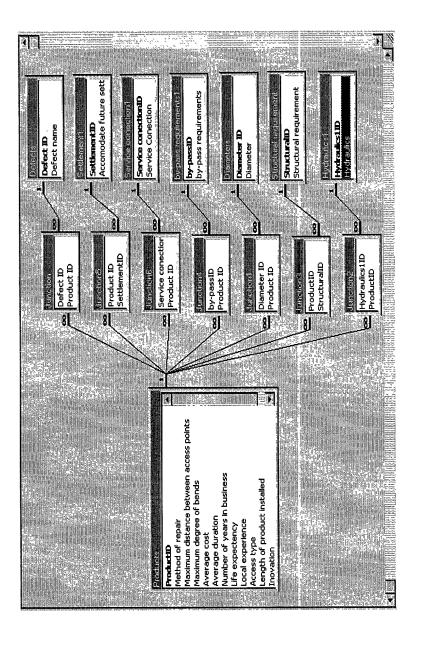
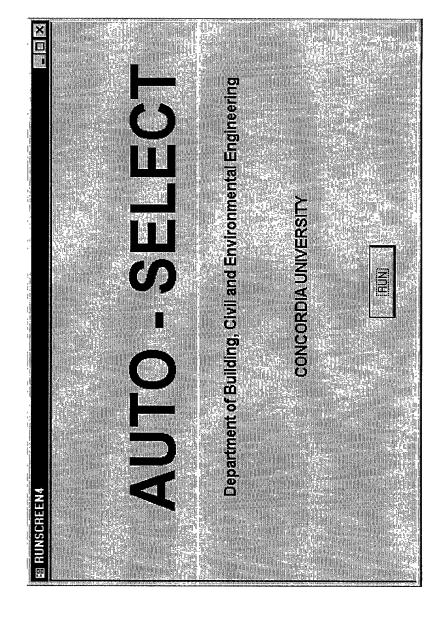


Figure 4-4: Schema of the Developed Database

Figure 4-5: Database Execution Form



Diameter (in/cm)	
Defect name	
Structural requirement (structural/ non-structural)	
Non-stuc Average cost (\$/cm of diameter/m of length) stuctural	Non-structural structural structural structural
Maximum degree of bends [Degrees]	
Access type [manhole/ manholetesca.pits]	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
Maximum distance between access points [m]	Wethod of repair
Hydraulics (improved/not improved)	
by-pass requirements [yes/no]	
Average duration (weeks)	Coordinates
Number of years in business (years)	
Length of product installed (km)	
Life expectency (years)	The Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Co
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Inovation [1:5]	
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Figure 4-6: Data Entry and Retrieval Form

Which attributes do you w	Which attributes do you want to consider in your analysis
□ Cost	☐ Years in business
□ Duration	☐ Length of product installed
☐ Life expectancy	∏Innovation
	Next

Figure 4-7: Available Attributes to Users

X				
	What, in your opinion, is the most acceptable cost of project?	(i.e. 100 % satisfaction)	Next	
	iat, in		Add	A SECTION OF STREET
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UserForm22				

Figure 4-8: Sample Dialog Screen

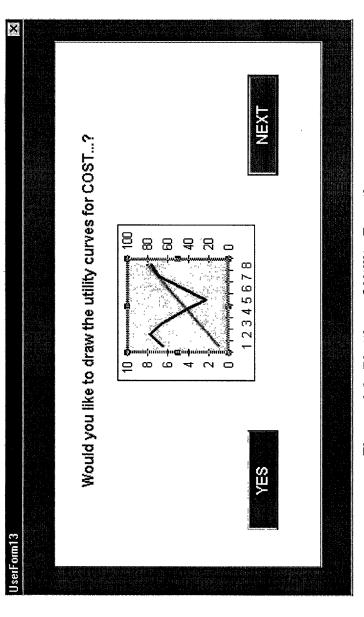


Figure 4-9: Plotting of Utility Functions

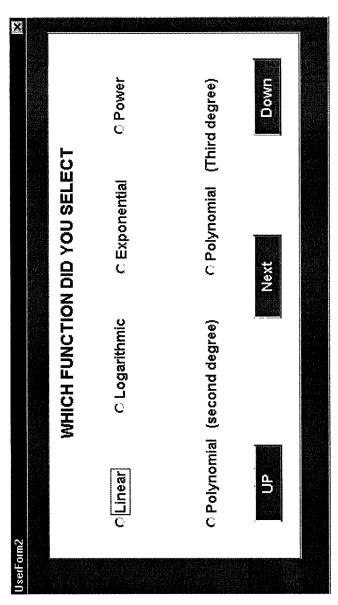


Figure 4-10: Selection of Utility Functions

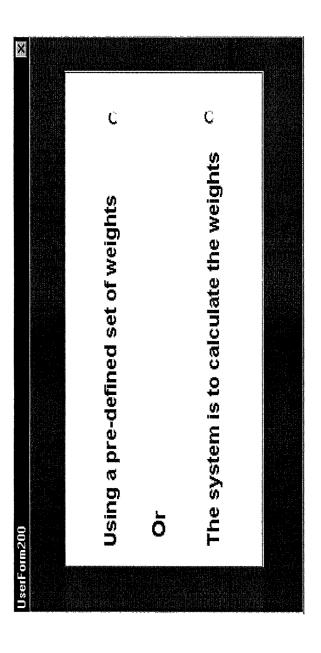


Figure 4-11: Selection of Required Mode of Weight Calculation

UserForm201			X
Cost	And the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	Years in business	
Duration	, ,	Length of product installed	4
Life expectancy	\[ \]	Innovation	**************************************
Retrive file L	Load pre-calculated weights	ghts Enter pre-defined weights	

Figure 4-12: Feeding a Pre-Calculated Set of Weights

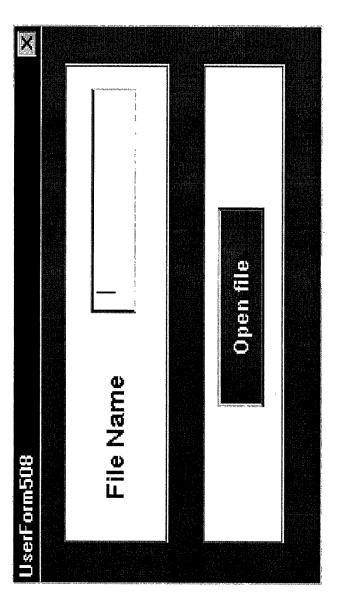


Figure 4-13: Retrieving a Pre-Defined Set of Weights

Cost Duration Years in Life Leabusiness expectancy problems in Duration  Years in business  Life expectancy  Length of product installed							
		Cost	Duration	Years in business	Life expectancy	Length of product installed	Innovation
	Cost	1.00		Manufacture.		00000000	
	Duration		100		***************************************		
	Years in business			1.00	Productive Constitution		
	Life expectancy	you an aroun			1.00	NAM 444A	
	Length of product installec	***			**************************************	1.00	
	Innovation			L			00
				ê N			

Figure 4-14: Relative Importance Screen

UserForm122		×
WEIGHT (	WEIGHT CALCULATIONS	PERFORMANCE
Cost	Weight	
Duration	Weight	FIGERNAIUS
Years in business	Weight	
Life expectancy	Weight	Comsistency Ratio (CR)
Length of product installed	Weight	
Innovation	Weight	
Calculate	Revise Next	Save

Figure 4-15: Weight Calculation Screen

	OVERALL RELATIVE UTILITIES	Alternative # 1	Alternative # 2	Alternative # 3	Alternative #4	
UserForm126	OVERA	Alternati	Alternat	Alternat	Alternat	

Figure 4-16: Overall Utility Values